

CLAIMS:

What is claimed is:

- 1 1. A method for processing shared data comprising:
2 receiving a request to perform a task on shared
3 data;
4 creating a work item message for the task; and
5 publishing the work item message to a messaging
6 service.
- 1 2. The method of claim 1, wherein the task is one of an
2 edit task and a locking task.
- 1 3. The method of claim 2, wherein the step of
2 publishing the work item message comprises posting the
3 work item message to an edit topic.
- 1 4. The method of claim 1, wherein the task is one of an
2 edit task and an unlocking task.
- 1 5. The method of claim 4, wherein the step of
2 publishing the work item message comprises posting the
3 work item message to a transaction topic.
- 1 6. A method for processing shared data comprising:
2 receiving a work item message from a messaging
3 service;
4 processing the work item message; and
5 publishing a result to the messaging service.

1 7. The method of claim 6, wherein the step of receiving
2 a work item message comprises consuming a work item
3 message from an edit topic.

1 8. The method of claim 7, further comprising placing
2 the work item message in an edit queue.

1 9. The method of claim 8, wherein the step of
2 processing the work item message comprises:
3 determining whether the work item message was
4 created by a current server cluster node; and
5 performing a request task corresponding to the work
6 item message if the work item message was created by the
7 current server cluster node.

1 10. The method of claim 9, wherein the step of
2 processing the work item message further comprises:
3 waiting until the work item message is removed from
4 the edit queue if the work item message was not created
5 by the current server cluster node.

1 11. The method of claim 7, wherein the work item message
2 comprises a locking request.

1 12. The method of claim 11, wherein the step of
2 processing the work item message comprises locking a
3 portion of the shared data.

1 13. The method of claim 6, wherein the step of receiving
2 a work item message comprises consuming a work item
3 message from a transaction topic.

1 14. The method of claim 13, wherein the step of
2 processing the work item message comprises:
3 performing a request task corresponding to the work
4 item message on a clone of at least a portion of the
5 shared data.

1 15. The method of claim 13, wherein the work item
2 message comprises an unlocking request.

1 16. The method of claim 15, wherein the step of
2 processing the work item message comprises unlocking at
3 least a portion of the shared data.

1 17. The method of claim 16, wherein the result comprises
2 a modified portion of the shared data.

1 18. A method for processing shared data comprising:
2 receiving a result from a messaging service;
3 processing the result; and
4 updating the shared data based on the result.

1 19. The method of claim 18, wherein the step of
2 processing the result comprises modifying the shared data
3 in persistent storage.

1 20. The method of claim 18, wherein the step of
2 processing the result comprises updating the shared data
3 in memory.

1 21. An apparatus for processing shared data comprising:
2 receipt means for receiving a request to perform a
3 task on shared data;
4 creation means for creating a work item message for
5 the task; and
6 publication means for publishing the work item
7 message to a messaging service.

1 22. The apparatus of claim 21, wherein the task is one
2 of an edit task and a locking task.

1 23. The apparatus of claim 22, wherein the publication
2 means comprises means for posting the work item message
3 to an edit topic.

1 24. The apparatus of claim 21, wherein the task is one
2 of an edit task and an unlocking task.

1 25. The apparatus of claim 24, wherein the publication
2 means comprises means for posting the work item message
3 to a transaction topic.

1 26. An apparatus for processing shared data comprising:
2 receipt means for receiving a work item message from
3 a messaging service;

4 processing means for processing the work item
5 message; and
6 publication means for publishing a result to the
7 messaging service.

1 27. The apparatus of claim 26, wherein the receipt means
2 comprises means for consuming a work item message from an
3 edit topic.

1 28. The apparatus of claim 27, further comprising means
2 for placing the work item message in an edit queue.

1 29. The apparatus of claim 28, wherein the processing
2 means comprises:
3 means for determining whether the work item message
4 was created by a current server cluster node; and
5 means for performing a request task corresponding to
6 the work item message if the work item message was
7 created by the current server cluster node.

1 30. The apparatus of claim 29, wherein the processing
2 means further comprises:
3 means for waiting until the work item message is
4 removed from the edit queue if the work item message was
5 not created by the current server cluster node.

1 31. The apparatus of claim 27, wherein the work item
2 message comprises a locking request.

1 32. The apparatus of claim 31, wherein the processing
2 means comprises means for locking a portion of the shared
3 data.

1 33. The apparatus of claim 26, wherein the receipt means
2 comprises means for consuming a work item message from a
3 transaction topic.

1 34. The apparatus of claim 33, wherein the processing
2 means comprises:
3 means for performing a request task corresponding to
4 the work item message on a clone of at least a portion of
5 the shared data.

1 35. The apparatus of claim 33, wherein the work item
2 message comprises an unlocking request.

1 36. The apparatus of claim 35, wherein the processing
2 means comprises means for unlocking at least a portion of
3 the shared data.

1 37. The apparatus of claim 36, wherein the result
2 comprises a modified portion of the shared data.

1 38. An apparatus for processing shared data comprising:
2 receipt means for receiving a result from a
3 messaging service;
4 processing means for processing the result; and
5 update means for updating the shared data based on
6 the result.

1 39. The apparatus of claim 38, wherein the processing
2 means comprises means for modifying the shared data in
3 persistent storage.

1 40. The apparatus of claim 38, wherein the processing
2 means comprises means for updating the shared data in
3 memory.

1 41. A computer program product, in a computer readable
2 medium, for processing shared data comprising:
3 instructions for receiving a request to perform a
4 task on shared data;
5 instructions for creating a work item message for
6 the task; and
7 instructions for publishing the work item message to
8 a messaging service.

1 42. A computer program product, in a computer readable
2 medium, for processing shared data comprising:
3 instructions for receiving a work item message from
4 a messaging service;
5 instructions for processing the work item message;
6 and
7 instructions for publishing a result to the
8 messaging service.

1 43. A computer program product, in a computer readable
2 medium, for processing shared data comprising:

3 instructions for receiving a result from a messaging
4 service;
5 instructions for processing the result; and
6 instructions for updating the shared data based on
7 the result.

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